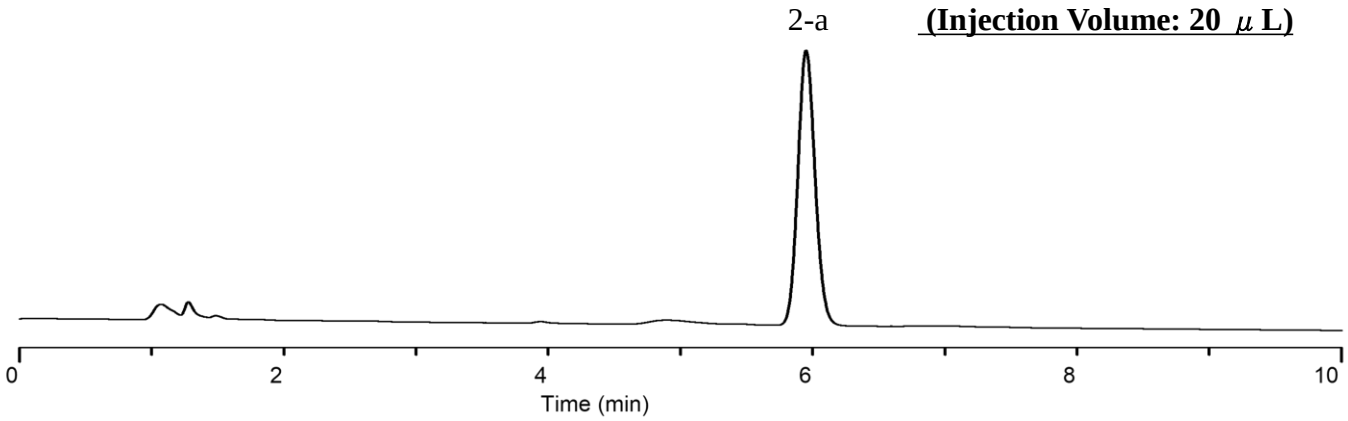
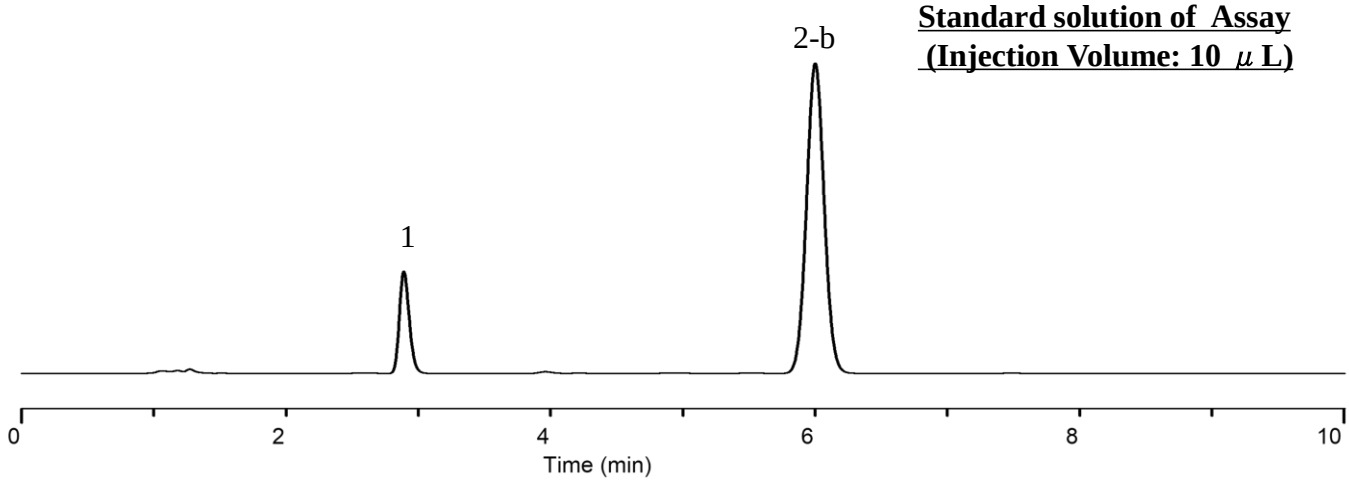
# Analysis of Sodium Valproate

**(Under the Condition of the draft for the Japanese Pharmacopoeia, Sodium Valproate Extended-release Tablets B)**

**Standard solution of Dissolution (Injection Volume: 20 μL)**




**Standard solution of Assay (Injection Volume: 10 μL)**




## Conditions

| | | |
|---|---|---|
| **System** | : | GL7700 HPLC system |
| **Column** | : | InertSustain C18 (5 μm, 150 x 4.6 mm I.D.) |
| **Column Cat. No.** | : | 5020-07345 |
| **Eluent** | : | A) $CH_3CN$<br>B) 50 mM $NaH_2PO_4$ (pH 3.0, $H_3PO_4$)<br>A/B = 50/50, v/v |
| **Flow rate** | : | 1.0 mL/min |
| **Col. Temp.** | : | 25 ℃ |
| **Detection** | : | UV 210 nm (UV7750 UV Detector) |
| **Sample** | : | Standard |

**Analyte:**

1. Methyl *p*-hydroxybenzoate 4 mg/L
2. Valproic acid
   220 mg/L (2-a) or 800 mg/L (2-b)

Theoretical plates (2-a) : 9,617 (≧ 3,000)
Symmetry factor (2-a) : 1.10 (≦ 2.0)
RSD of the peak area of
2-a (%)(n=6) : 0.23 (≦ 1.0)

Resolution (1, 2-b) : 16.4 (≧ 7)
RSD of the relative peak area of
2-b to 1 (%)(n=6) : 0.07 (≦ 1.0)